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<110> Minion, F. Chris
Djordjevic, Steven P.

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Polypeptides

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<213> *Mycoplasma hyopneumoniae*

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<213> *Mycoplasma hyopneumoniae*

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<212> DNA

<213> Mycoplasma hyopneumoniae

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<212> PRT

<213> Mycoplasma hyopneumoniae

<400> 8

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<213> Mycoplasma hyopneumoniae

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<213> Mycoplasma hyopneumoniae

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<213> Mycoplasma hyopneumoniae

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<213> Mycoplasma hyopneumoniae

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<210> 18

<211> 451

<212> PRT

<213> Mycoplasma hyopneumoniae

<400> 18

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<211> 5637

<212> DNA

<213> Mycoplasma hyopneumoniae

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<211> 1878

<212> PRT

<213> Mycoplasma hyopneumoniae

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Ile	Ile	Ser	Gln	Phe	Lys	Asp	Gln	Asn	Leu	Ser	Asn	Gln	Asp	Gln	Leu	
785					790					795					800	
Ala	Gln	Phe	Ser	Thr	Lys	Ile	Trp	Glu	Lys	Ile	Ile	Gly	Asp	Glu	Asn	
				805					810					815		
Glu	Phe	Asp	Gln	Asn	Asn	Arg	Leu	Gln	Tyr	Lys	Leu	Leu	Lys	Asp	Leu	
				820					825					830		
Gln	Glu	Ser	Trp	Ile	Asn	Lys	Thr	Arg	Asp	Asn	Leu	Tyr	Trp	Thr	Tyr	
				835					840					845		
Leu	Gly	Asp	Lys	Leu	Lys	Val	Lys	Pro	Lys	Asn	Asn	Leu	Asp	Ala	Lys	
						855					860					
Phe	Arg	Gln	Ile	Ser	Asn	Leu	Gln	Glu	Leu	Leu	Thr	Ala	Phe	Tyr	Thr	
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Ile	Gly	Phe	Asp	Asp	Asn	Ala	Gly	Lys	Phe	Asn	Gln	Glu	Val	Ile	Arg		
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Ser	Ser	Ser	Arg	Thr	Ile	Tyr	Leu	Lys	Thr	Ser	Gly	Lys	Ser	Lys	Leu		
945					950					955					960		
Glu	Ala	Asp	Thr	Ile	Asp	Gln	Leu	Asn	Gln	Ala	Val	Glu	Asn	Ala	Pro		
				965					970						975		
Leu	Gly	Leu	Gln	Ser	Phe	Tyr	Leu	Asp	Thr	Glu	Arg	Phe	Gly	Val	Phe		
			980					985					990				
Gln	Lys	Leu	Ala	Thr	Ser	Leu	Ala	Val	Gln	His	Lys	Gln	Lys	Glu	Lys		
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			1045					1050						1055			
Asn	Val	Ser	Thr	Phe	Gly	Ser	Ile	Ile	Glu	Ser	Pro	Tyr	Phe	Ser	Thr		
			1060					1065					1070				
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	1075					1080					1085						
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Gln	Lys	Leu	Ala	Ile	Leu	Leu	Gly	Asn	Gln	Phe	Ile	Gln	Tyr	Tyr	Gln		
1105					1110					1115					1120		
Gln	Asn	Asp	Lys	Glu	Ile	Glu	Phe	Glu	Ile	Ile	Asn	Val	Glu	Lys	Val		
			1125					1130						1135			
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Asn Ile Asp Lys Tyr Leu Asn Asn Lys Gly Asn Val Ser Ser Gln Gln		1360
1365	1370	1375
Gln Gln Gln Gln Gln Gln Gln Pro Gly Gly Gly Asn Gln Gly Ser Gly		
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Leu Ile Gln Arg Leu Asn Lys Asn Ile Lys Pro Glu Thr Phe Thr Pro		
1395	1400	1405
Ala Leu Ile Ala Leu Lys Arg Asp Asn Asn Thr Asn Leu Ser Asn Tyr		
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Ser Asp Lys Ile Ile Met Ile Lys Pro Lys Tyr Leu Val Glu Arg Ser		
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Ile Gly Val Pro Trp Ser Thr Gly Leu Asp Gly Tyr Ile Gly Ser Glu		1440
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Gln Leu Lys Gly Gly Thr Ser Ser Asn Gly Gln Lys Arg Phe Lys Gln		
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Asp Phe Ile Gln Ala Leu Gly Leu Lys Asn Thr Glu Tyr His Gly Lys		
1475	1480	1485
Leu Gly Leu Ser Ile Arg Ile Phe Asp Pro Gly Asn Glu Leu Ala Lys		
1490	1495	1500
Ile Lys Asp Ala Ser Asn Lys Lys Gly Glu Glu Lys Leu Leu Lys Ser		
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Tyr Asp Leu Phe Lys Asn Tyr Leu Asn Glu Tyr Glu Lys Lys Ser Pro		1520
1525	1530	1535
Lys Ile Ala Lys Gly Trp Thr Asn Ile His Pro Asp Gln Lys Glu Tyr		
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Pro Asn Pro Asn Gln Lys Leu Pro Glu Asn Tyr Leu Asn Leu Val Leu		
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Asn Gln Pro Trp Lys Val Thr Leu Tyr Asn Ser Ser Asp Phe Ile Thr		
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Asn Leu Phe Val Glu Pro Glu Gly Ser Asp Arg Gly Ser Gly Ala Lys		
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Leu Lys Gln Val Ile Gln Lys Gln Val Asn Asn Asn Tyr Ala Asp Trp		
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Gly Ser Ala Tyr Leu Thr Phe Trp Tyr Asp Lys Asp Ile Ile Thr Asn		
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Gln Pro Asn Val Ile Thr Ala Asn Ile Ala Asp Val Phe Ile Lys Asp		
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Val Lys Glu Leu Glu Asp Asn Thr Lys Leu Ile Ala Pro Asn Ile Thr		
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Gln Trp Trp Pro Asn Ile Ser Gly Ser Lys Glu Lys Phe Tyr Lys Pro		
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Thr Val Phe Phe Gly Asn Trp Glu Asn Glu Asn Ser Asn Met Asn Ser		
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Gln Gly Gln Thr Pro Thr Trp Glu Lys Ile Arg Glu Gly Phe Ala Leu		
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Gln Ala Leu Lys Ser Ser Phe Asp Gln Lys Thr Arg Thr Phe Val Leu		
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Thr Thr Asn Ala Pro Leu Pro Leu Trp Lys Tyr Gly Pro Leu Gly Phe		
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Gln Asn Gly Pro Asn Phe Lys Thr Gln Asp Trp Arg Leu Val Phe Gln		

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 1765 1770 1775
 Pro Glu Lys Ser Ser Glu Asp Lys Asp Lys Gln Lys Trp Ile Lys Phe
 1780 1785 1790
 Lys Val Val Ile Pro Glu Glu Met Phe Asn Ser Gly Asn Ile Arg Phe
 1795 1800 1805
 Val Gly Val Met Gln Ile Gln Gly Pro Asn Thr Leu Trp Leu Pro Val
 1810 1815 1820
 Ile Asn Ser Ser Val Ile Tyr Asp Phe Tyr Arg Gly Thr Gly Asp Ser
 1825 1830 1835 1840
 Asn Asp Val Ala Asn Leu Asn Val Ala Pro Trp Gln Val Lys Thr Ile
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 Ser Lys Lys Ile Val Glu
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